

## TECHNICAL DATA SHEET

# ECODIS™ C 20

Dispersing agent for water-based systems

## Ionic Homopolymer dispersant

### TYPICAL CHARACTERISTICS

Nature	<b>Polyacrylate Ammonium Salt</b>
Appearance	<b>Pale yellow liquid</b>
Solid Content (%)	<b>43</b>
Active Content (%)	<b>43</b>
pH	<b>7.5</b>
Specific gravity	<b>1.19</b>
Neutralization type	<b>Ammonium</b>
Solvent	<b>Water</b>

### DESCRIPTION

Dispersion paints are usually formulated with fillers or extenders, particularly the very fine calcium carbonates and clays now available. Their dispersion in water based systems must be achieved easily with common stirrers without forming agglomerates or causing a viscosity build up. Usual inorganic dispersants such as phosphate based dispersants are not able to solve this problem satisfactorily: their deflocculating effectiveness is limited by the fineness of the extenders used and their poor temperature stability (degradation through hydrolysis) affects the long term stability of paints. Ecodis™ C 20 has been especially developed to ensure the complete dispersion of extenders and inorganic pigments at high solids contents in systems showing medium to high PVC (Pigment Volume Concentration).

### RECOMMENDED ADDITION LEVEL

The required amount varies from 0.1% to 0.5% of active ingredients based on the total weight of the pigments and fillers. A more easy way is to start formulation trials using 0.4% to 0.5% of Ecodis™ C 20, as delivered, on the total formulation weight. It is recommended to disperse the pigments in a pH range between 7.0 and 9.5.

### STANDARD PACKAGING

Other packaging may be available upon request

- 1000L IBC • 200L Drum

### HANDLING & STORAGE

It should be protected from the effects of weathering and stored between 5 and 40°C. Once opened, packaging should be resealed immediately after use. Product must be stored and packaged in plastics drums. Avoid contact of the product with metal (steel, aluminium and its alloys) excepted stainless steel. In these conditions, this product should be used within 12 months from delivery.

### MARKETS

#### Composites & Advanced Materials

- Graphic Arts

#### Coatings & Inks

- Architectural Coating
- Textile & Leather Coating
- Traffic Paint

#### Adhesives & Sealants

- Assembly
- Sealants

### KEY BENEFITS

#### FORMULATION

- Compatibility
- Cost in use
- Easy handling



#### STORAGE

- Antisettling
- Floating resistance
- Syneresis resistance
- Viscosity stability



#### FILM PROPERTIES

- Hiding power/Opacity



### PVC

PVC Low  
PVC Mid  
PVC High



### SUITABLE FOR

Inorganic pigments  
Fillers



# ECODIS™ C 20

## PROCESSING INSTRUCTIONS

Ecodis™ C 20 should be preferably added to water before the pigment incorporation. The optimum level is determined for each pigment blend by plotting the graph of the viscosities of the pigment dispersion in water, versus the amount of dispersant. The level of dispersant corresponding to the minimum viscosity is chosen. To be easily pumpable, it should be used about 20°C.

## HEALTH AND ENVIRONMENTAL DATA

For safe handling please refer to the Safety Data Sheet. For more information about health and environmental data, please contact us.

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